







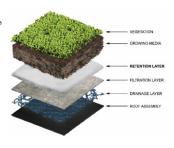


TECHNICAL INFORMATION SHEET

Mineral Wool Retention Layer

Description:In most situations the high water holding capacity of our growing media and standard water retention layer should meet project green roof water retention goals. For projects needing to maximize storage, the Mineral Wool Retention Layer can be a good choice.

The Mineral Wood Retention Layer is a needled rockwool layer that forms a UV stable, three dimensional blanket matrix that increases the water retention ability of a green roof. The Mineral Wool Retention moisture for plants, and anchorage for plant roots. The Mineral Wool Retention Layer can be provided in 1.0 inch and 2.0 inch layer can be easily cut to shape.



Water Storage Volume Calculations

 Contact Columbia Green for assistance in determining the total green roof storage volume of any of our system 503-327-8723 info@columbia-green.com

 Closely align adjacent layers but do not overlap material. Install perpendicular to slope. Always install over Drainage/ Filtration Layer to provide necessary air flow/drainage

Storage:

- Store components in a dry area.
- Store away from sources of ignition and extremely high temperatures

Precautions:

- Avoid prolonged exposure to sunlight, heat, sparks and open flames.
- Wash exposed skin prior to eating, drinking or smoking and at the end of each shift.

Technical Data at 1.0" Thickness:

BIORETENTION BASIN 1

Physical Property	Value
Density	8.43 lbs/cu.ft.
Color	Off-White
Roll Width	3.28 ft/ 39.4"
Roll Length	16.4 ft/ 196.9"
Roll Coverage	53.8 ft ²
Thickness	1.02 inch (26mm)
Dry Unit Weight - ASTM E2397	09 lbs/SF
Saturated Weight - ASTM E2397	5.3 lbs/SF
Storage Volume % ASTM E2397	93 % (unit weight retained water)



bia Green Technologies • 79 SE Taylor St. • Suite 102 • Portland, OR 97214 • (503) 327-8723 • www.colu s and specifications subject to change without prior notice. Please call to verify current specifications.

15° EK

COLUMBIA GREEN

TECHNICAL INFORMATION SHEET

Pregrown Sedum Mat Product NUMBER: PL4600

Pregrown sedum mats are a pre-vegetated option for instant coverage on green roofs. They are field-grown on a thin substrate, and are compatible with both the Planted-In-Place and Lavered Green Roof systems. The mats can be trimmed to fil any shape, including curves and various angles

- Quick and easy installation
- Immediate vegetative cover
 Minimal maintenance requirements once established
 The coconut fiber base assures effective rooting of the plants to the underlying growth media.

Technical Data:

- Vegetation- Minimum 85% coverage
- Coconut Fiber/ Soil base- Approximately 1/2 3/4" thick Measurements- 48"w v 75"I

Installation

Install sedum mats directly over a minimum 2" freshly wetted and leveled growing media. Maintain good overall contact wit the media avoiding gaps between and beneath the mats. Water thoroughly after installation. Overhead irrigation is ended twice weekly until the roots become well established, which usually takes 3-4 weeks. Plantings installed during very cool fall weather may only need the initial irrigation

If temperatures exceed 75°F [20°C], it is best to unroll and install sedum mats within 2 hours of arrival.

If necessary, rolled sedum mats may be stored in a cool location for a maximum of 24 hours. Do not leave plants in

Precautions:

LEED Compliance:

500 mile or less Component Source Location- We partner with growers throughout North America. Contact Columbia Green

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COLUMBIA GREEN

TECHNICAL INFORMATION SHEET

This mix provides flowers throughout the growing season. Winter interest and seasonal foliage color changes are also found in this mix, This is a good, general-purpose mix that provides year-round beauty. Each sedum mat includes 12-15 centum septistic.



Sedum varieties used in the Standard Sedum Mat Mix:

- Phedimus (aka Sedum) spurium 'Fuldaglut' (aka Blaze of Fulda, Fireglow)
 - Phedimus (aka Sedum) spurium 'John Cree
- Phedimus (aka Sedum) spurium 'Red Carpet' Phedimus (aka Sedum) kamtschaticum Phedimus (aka Sedum) kamtsch. 'Variegatum'
- Phedimus (aka Sedum) takesimensis 'Golden Carpet Sedum acre 'Aureum
- Sedum acre 'Gold Moss' Sedum album 'Coral Carpet
- Sedum album 'Coral Carpet'
 Sedum album 'Murale'
 Sedum Stefco
 Sedum floriferum 'Weihenstephaner Gold'
- Sedum reflexum 'Blue Spruce'
- Sedum rupestre 'Angelina'
 Sedum sexangulare
- Sedum x Immergrunchen

LANDSCAPE DETAILS

Storage Volume

per Washington D.C. DOEE Green Roof Stormwater Calculation

 $Sv = SA \times [(d \times n^1) + (DL \times n^2)] \div 12$

Columbia Green System: d= 4.00 inches growing media depth

1 inch water retention/drainage mat

n1= 0.533 maximum water holding capacity, (growing media)

n2= 0.93 unit weight retained water, (Water retention/drainage mat)

	volume req. by engineer								
Green Roof	SA: Green	Volume Required by BMP, CF (if	Columbia Green Green Roof						
Green Rooi	Roof (BMP)	known)	Storage Volume, CF						
1	18,000	3,730	4,593.00						

Green Roof Total Area (s.f.): 18,000

Cubic Feet/ft2. 0.26 Gallons: 34.358

Gallons/ft2: 1.9

LEGEND



RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC (>2')(N)



JUNIPERUS VIRGINIANA 'GREY OWL GREY OWL JUNIPER (>2')(N)



ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET VIRGINIA SWEETSPIRE (>2')(N)



ILEX GLABRA 'COMPACTA' COMPACT INKBERRY HOLLY (>2')(N)



CORNUS SERICEA 'KELSEYI' KELSEY'S DWARF RED-OSIER DOGWOOD (>2')(N)



RHODODENDRON 'ROBLEZA' PPAF AUTUMN BONFIRE ENCORE AZALEA (>2')



LIRIOPE MUSCARI 'EMERALD GODDESS' EMERALD GODDESS LILY TURF (<2')



IRIS VERSICOLOR BLUE FLAG IRIS (18" O.C. SPACING)(>2')(N)



RUDBECKIA FULGIDA 'FULGIDA' BLACK EYED SUSAN (18" O.C. SPACING)(>2')(N)



BAPTISTA AUSTRALIS FALSE INDIGO (18" OC SPACING)(>2')(N)

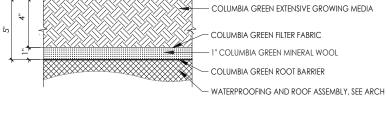


LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LILY TURF (18" O.C. SPACING)(<2')



GREEN ROOF SEDUM TILE MID-ALTANTIC SEDUM BLEND





1. SYSTEM IS DESIGNED FOR DC DOEE SIDE DRAINAGE-TYPE CDA (CDA AT SAME ELEVATION AS GREEN ROOF) PER THE 2019 STORMWATER GUIDEBOOK. USE COLUMBIA GREEN EXTENSIVE LAYERED SYSTEM WITH DRAINAGE LAYER IN OTHER CONDITIONS.

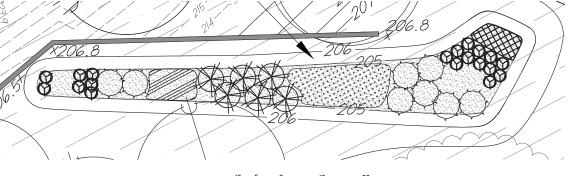


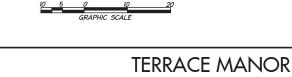
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4" DEPTH MINERAL WOOL GREEN ROOF MINERAL WOOL LAYERED DETAIL SCALE: 3"=1'-0"

BIORETENTION BASIN 3















				Green Area Ratio Scoresheet					
[]	Address 23rd and Savannah Streets, SE		uare 394		Lot 2,3,&4	Zone District RA-1			
	Other Terrace Manor Redevelopment	Lot area (sf)	Minimum Score		Multiplier	GAR Score			
	Lot size (enter this value first) *	100,260	.4		SCORE:	0.625			
	Landscape Elements		Square Feet	Factor		Total			
A	Landscaped areas (select one of the following for each	h area)	square feet						
1	Landscaped areas with a soil depth < 24"		o square feet	0.30		-			
2	Landscaped areas with a soil depth ≥ 24"		58,190 square feet	0.60		34,914.0			
3	Bioretention facilities		2,024	0.40		809.6			
В	Plantings (credit for plants in landscaped areas from	Section A)	square feet		Native Bonus square feet				
1	Groundcovers, or other plants < 2' height	# of plants	509	0.20	# of plants	101.8			
2	Plants ≥ 2' height at maturity - calculated at 9-sf per plant	526	4734	0.30	474	1,420.2			
3	New trees with less than 40-foot canopy spread - calculated at 50 sq ft per tree	# of trees 24	1200	0.50	# of trees 24	600.0			
4	New trees with 40-foot or greater canopy spread - calculated at 250 sq ft per tree	# of trees	2250	0.60	# of trees	1,350.0			
5	Preservation of existing tree 6" to 12" DBH - calculated at 250 sq ft per tree	# of trees	1750	0.70	# of trees	1,225.0			
6	Preservation of existing tree 12" to 18" DBH - calculated at 600 sq ft per tree	# of trees	0	0.70	# of trees	-			
7	Preservation of existing trees 18" to 24" DBH - calculated at 1300 sq ft per tree	# of trees	0	0.70	# of trees	-			
8	Preservation of existing trees 24" DBH or greater - calculated at 2000 sq ft per tree	# of trees	4000	0.80	# of trees	3,200.0			
9	Vegetated wall, plantings on a vertical surface		square feet	0.60	square feet	-			
С	Vegetated or "green" roofs								
1	Over at least 2" and less than 8" of growth medium		18,412	0.60	square feet	11,047.2			
2	Over at least 8" of growth medium		square feet	0.80	square feet	-			
D	Permeable Paving***								
1	Permeable paving over 6" to 24" of soil or gravel		square feet	0.40		-			
2	Permeable paving over at least 24" of soil or gravel		square feet	0.50		-			
E	Other								
1	Enhanced tree growth systems***		square feet	0.40		-			
2	Renewable energy generation		13,850	0.50		6,925.0			
3	Approved water features		square feet	0.20		-			
F	Bonuses	sub-total of sq ft							
1	Native plant species		square feet 10,966	0.10		1,096.6			
2	Landscaping in food cultivation		square feet	0.10		-			
3	Harvested stormwater irrigation		square feet	0.10		-			
*** Pern	neable paving and structural soil together may not qualify for more than on					62,689			
	i otal square footage	of all permeable pav	ing and enhanced tre	e growth	1.	-			

STATEMENT BY CERTIFIED LANDSCAPE EXPERT:

THIS IS TO CERTIFY THAT I HAVE EXAMINED ALL REQUIRED GAR PLAN SUBMITTALS PRIOR TO SUBMISSION. I FURTHER CERTIFY THAT ALL ASPECTS OF THE SUBMITTAL, INCLUDING LANDSCAPE ELEMENTS WITHIN THE LOT AND LISTED GAR SCORE, HEET THE SPECIFICATIONS REQUIRED UNDER CHAPTER 34 OF TITLE II OF THE DISTRICT OF COLUMBIA MUNICIPAL REGULATIONS

JASON RADICE, RLA, ASLA, LEED-AP
NAME AND TITLE
9900 MAIN STREET, SUITE 400
ADDRESS
FAIRFAX, VA 22031
DATE 01/02/2019 PHONE NO. _703-273-6820

CERTIFIED LANDSCAPE EXPERT SIGNATURE

MD-DLLR

CERTIFIED CANDSCAPE EXPERT SIGNATURE

CERTIFYING ORGANIZATION

CERTIFICATION NUMBER







SITE AND UTILITY PLAN

PROJECT NARRATIVE

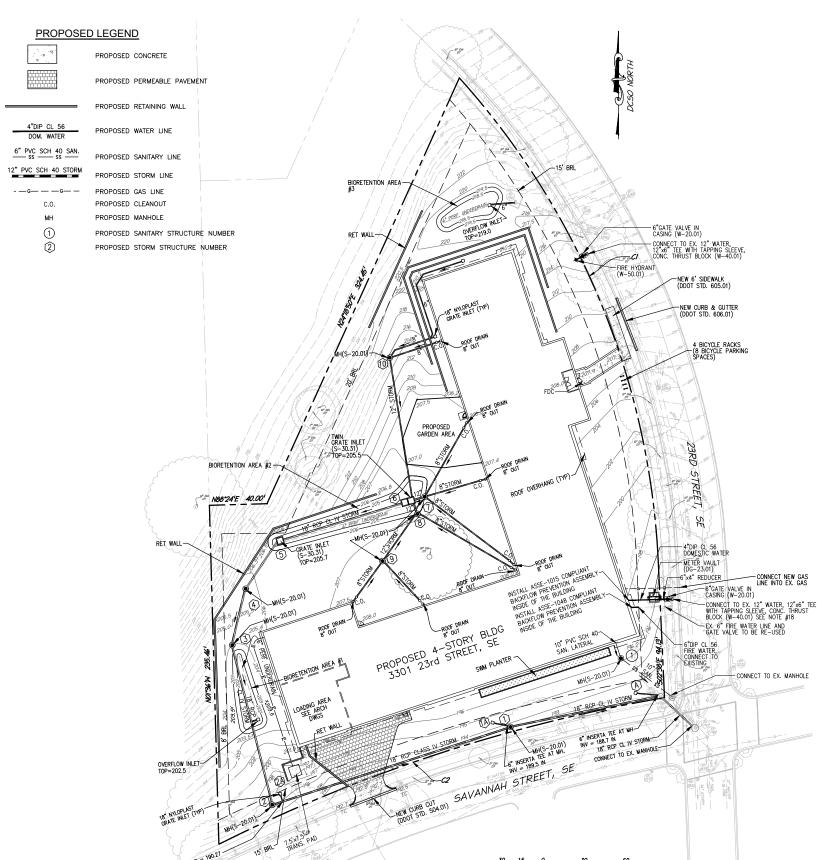
THE PROJECT IS LOCATED AT 3301 23RD STREET SE, WASHINGTON, DC. THE SITE PROPERTY IS COMPOSED OF THREE PARCELS OPERATING AS A RESIDENTIAL APARTMENT COMPLEX. THE EXISTING APARTMENTS BUILDINGS WILL BE RAZED, INCLUDING THE EXISTING PARKING AREA, AND A NEW 4-STORY APARTMENT BUILDING WITH UNDERGROUND PARKING WILL BE CONSTRUCTED. THERE ARE 130 RESIDENTIAL UNITS PROPOSED AS PART OF THIS PROJECT.

THE EXISTING BUILDING HAS EXISTING ELECTRIC, TELECOM, WATER AND SANITARY SEWER SERVICES. ALL OF THESE EXISTING SERVICES WILL BE ABANDONED OR REMOVED.

NEW UTILITIES WILL BE PROVIDED TO SERVICE THE PROPOSED APARTMENT BUILDING AS PART OF THIS PROJECT, WHICH INCLUDES A NEW DOMESTIC WATER LINE, A NEW FIRE WATER LINE, NEW STORM AND SANITARY LATERALS, AND NEW ELECTRIC SERVICE.

THE SITE DRAINS FROM THE NORTHWEST TO THE SOUTHEAST WITH EXISTING SLOPES MOSTLY IN THE RANGE OF 8 TO 15% ONSITE AND SOME ADJOINING SLOPES UP TO 40%. THE EXISTING SOILS ONSITE HAVE BEEN ALTERED BY PREVIOUS DEVELOPMENT AND PREDOMINATELY CONSIST OF KEPORT URBAN LAND COMPLEX AND UDORTHANTS. THE ADJOINING STEEP SLOPES CONSIST OF CHRISTIANA-URBAN LAND COMPLEX AND CROOM VERY GRAVELLY SANDY LOAM. ONSITE SOIL TESTING INDICATES PERCOLATION RATES THAT WILL REQUIRE SWM/BMP MEASURES TO HAVE UNDERDRAINS.

THERE ARE NO EXISTING STORMWATER MANAGEMENT (SWM) FACILITIES ON THE PROPERTY. PROPOSED SWM MEASURES AS PART OF THIS PROJECT INCLUDE GREEN ROOF, BIORETENTION FACILITIES AND PLANTING LARGE TREFS.



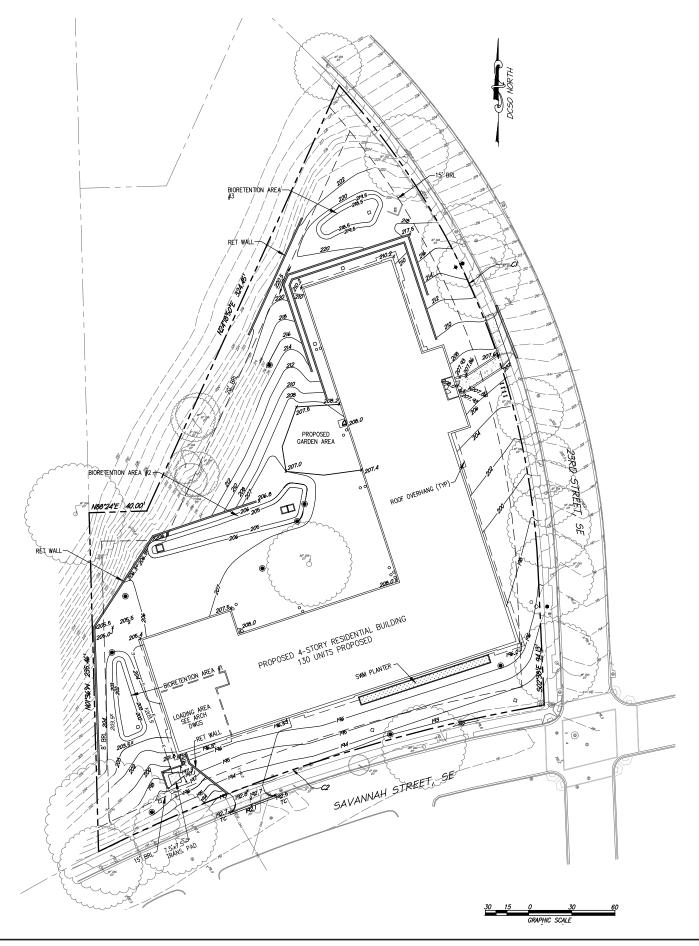
NOTES

- WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATIONS AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
- 2. DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK OR PAVEMENT, CENTERLINE OF PIPE OR UTILITY STRUCTURE, UNLESS OTHERWISE NOTED.
- FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES AS NEEDED.
- 4. OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY IF ANY INFORMATION CONCERNING FOUND UTILITY IS NOT SHOWN ON PLANS.
- EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT OR ENGINEER.
- 6. TEST PITS ARE REQUIRED AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS TO IDENTIFY HORIZONTAL LOCATIONS, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- IF A 1' MINIMUM VERTICAL CLEARANCE CANNOT BE MAINTAINED AT UTILITY CROSSINGS, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- 8. TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND GRADE OR AS DIRECTED BY ENGINEER.
- 9. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- 10. ALL NEW WATER LINES TO HAVE A MINIMUM COVER OF 4 FEET. WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED PER DC WATER STANDARDS AND SPECIFICATIONS.
- 11. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
- 12. NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO AN EXCAVATION IN THE VICINITY OF ANY GAS TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT CHUCK WHITLEY AT WASHINGTON GAS AT 703-750-4205
- 13. PROVIDE A MINIMUM OF 5 FEET OF HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.
- 14. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF DDOT AND DC WATER.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, DRIVEWAYS, CURB AND GUTTER THAT IS TO REMAIN OR TO REPLACE SIDEWALK, DRIVEWAYS, AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.
- 16. EXISTING FULL DEPTH PAVEMENT SECTION, CURB AND GUTTER TO BE REMOVED AND REPLACED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION OF NEW UTILITIES. MATERIALS TO COMPLY WITH DDOT STANDARDS AND SPECIFICATIONS.
- 17. ALL STORM DRAINS 12" IN DIAMETER OR SMALLER SHALL BE SCHEDULE 40 PVC PIPE. ALL STORM DRAINS OVER 12" IN DIAMETER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV.
- 18. CONTRACTOR TO VERIFY IN THE FIELD THAT THE INSTALLATION OF DOMESTIC WATER LINE CONNECTION AT THE MAIN WILL NOT IMPACT THE UNDISTURBED SOIL BEHIND THE THRUST BLOCK AT THE TEE CONNECTION OF THE EXISTING FIRE WATER LINE THAT IS TO REMAIN. COORDINATE WITH THE CIVIL ENGINEER IF IT MAY BE NECESSARY TO SHIFT THE DOMESTIC LINE A LITTLE BIT FURTHER TO THE NORTH.
- 19. CONTRACTOR TO CLEAN THE EXISTING YARD INLET AND EXISTING 6"
 STORM SEWER OUTFALL PIPE ALL THE WAY OUT TO EXISTING STORM
 STRUCTURE #1978 LOCATED WITHIN PUBLIC SPACE. CONTRACTOR TO
 NOTIFY ENGINEER AND OWNER SHOULD THEY DISCOVER THAT EITHER THE
 INLET OR STORM PIPE ARE COMPROMISED AFTER CLEANING. IF SO,
 CONTRACTOR TO PROVIDE OWNER WITH AN ALTERNATE PRICE TO REPLACE
 THE INLET AND/OR STORM PIPE UP TO STRUCTURE #1978.





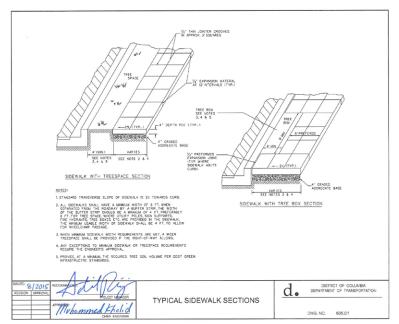


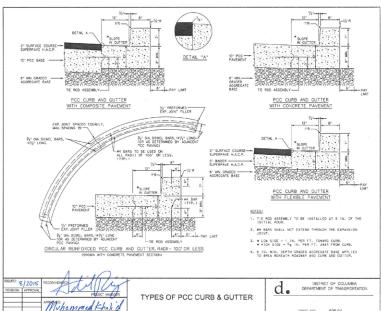


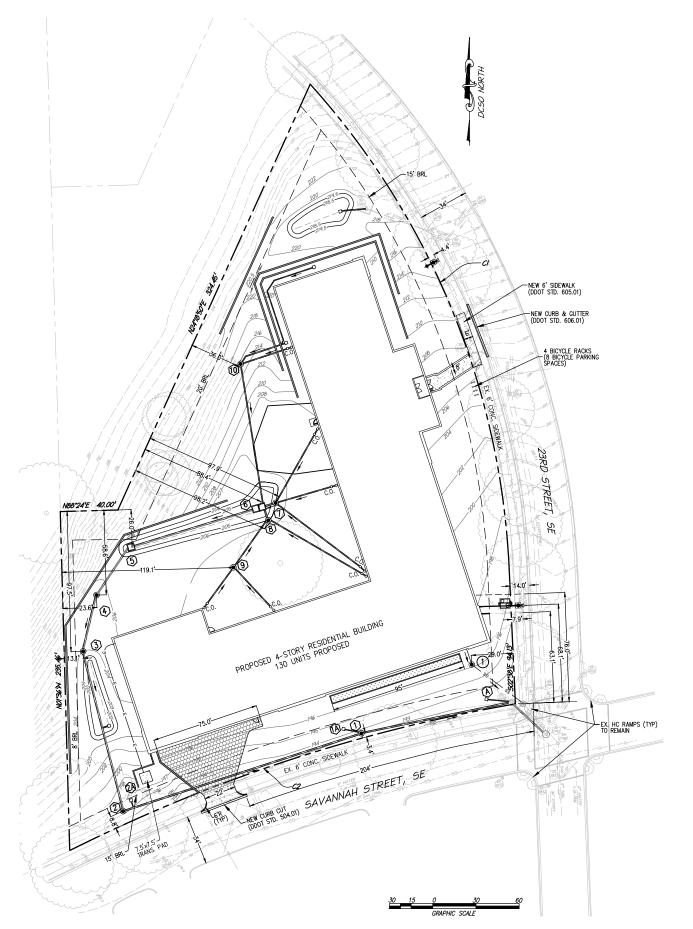


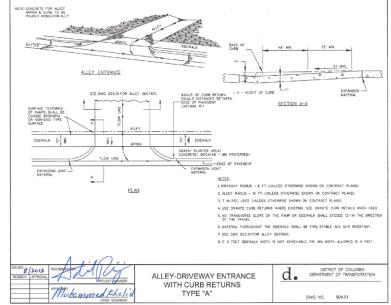


















STORMWATER MANAGEMENT NARRATIVE

THE EXISTING TERRACE MANOR APARTMENT BUILDINGS AND THE EXISTING PARKING LOT AREA ON THE PROPERTY WILL BE DEMOLISHED. THE PROJECT PROPOSES A NEW APARTMENT BUILDING AS WELL AS UNDERGROUND PARKING. THIS WORK IS CONSIDERED A MAJOR LAND DISTURBING ACTIVITY AND SHALL PROVIDE ON-SITE RETENTION OF THE FIRST 1.2 INCHES OF RAINFALL FOR THE ENTIRE AMOUNT OF DISTURBED AREA (93,470 SF). THESE NUMBERS WERE USED FOR THE STORMWATER MANAGEMENT COMPUTATIONS. ALSO, THE PROPERTY IS ZONED RA-1 (FORMER R-5-A), THEREFORE, GREEN AREA REQUIREMENTS APPLY TO THIS PROJECT AND REQUIRES A MINIMUM GREEN AREA RATIO SCORE OF 0.40.

THE SITE IS LOCATED IN THE MS4 (SEPARATE SEWER SYSTEM AREA) AND IS WITHIN THE ANACOSTIA RIVER WATERSHED. HOWEVER, THE SITE IS LOCATED <u>OUTSIDE</u> OF THE ANACOSTIA WATERFRONT DEVELOPMENT ZONE (AWDZ). THERE WILL BE A DECREASE IN STORM RUNOFF WHEN THE PROJECT IS CONSTRUCTED AND ALL STORMWATER MANAGEMENT MEASURES IMPLEMENTED WHEN COMPARED TO CURRENT EXISTING CONDITIONS.

THE GENERAL RETENTION COMPLIANCE CALCULATOR WAS USED IN DOEE'S SWM DATABASE TO DEMONSTRATE THE REQUIRED AMOUNT OF STORMWATER RETENTION HAS BEEN PROVIDED. THE SITE'S STORMWATER RETENTION VOLUME (SWR) IS BASED UPON 93,470 SF OF "MAJOR LAND DISTURBING ACTIVITY" WHICH UTILIZES A 1.2" REGULATORY RAIN EVENT. THIS RESULTS IN A SWRV OF 4,654 CF (35,328 GALLONS) THAT MUST BE PROVIDED FOR ONLESTE

PROPOSED SWM CONTROLS INCLUDE A LARGE AMOUNT OF EXTENSIVE GREEN ROOF, THREE BIORETENTION AREAS, LARGE TREE PLANTINGS, PERMABLE PAVEMENT TO TREAT VEHICULAR TRAFFIC AND A STORMWATER MANAGEMENT PLANTER ALONG THE SOUTH SIDE OF THE BUILDING.

NOTES

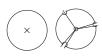
- SEE SHEET C-402 FOR PLANT LIST AND SPECIFIC BIORETENTION DETAILS, INCLUDING BIORETENTION MATERIAL SPECIFICATIONS AND BIORETENTION PLANT LISTS.
- 2. DC WATER REQUIRES A MINIMUM 6-FOOT CLEARANCE FROM A WATER MAIN TO A TREE BODY, AND WILL NOT ALLOW ANY NEW TREES TO BE PLANTED ALONG THE WESTERN SIDE OF 23RD STREET RIGHT-OF-WAY DUE TO THE CLOSE PROXIMITY OF THE EXISTING 12" WATER MAIN.
- 3. REFER TO LANDSCAPE DRAWINGS FOR ALL PROPOSED LANDSCAPING, GREEN AREA RATIO, ETC.

LEGEND

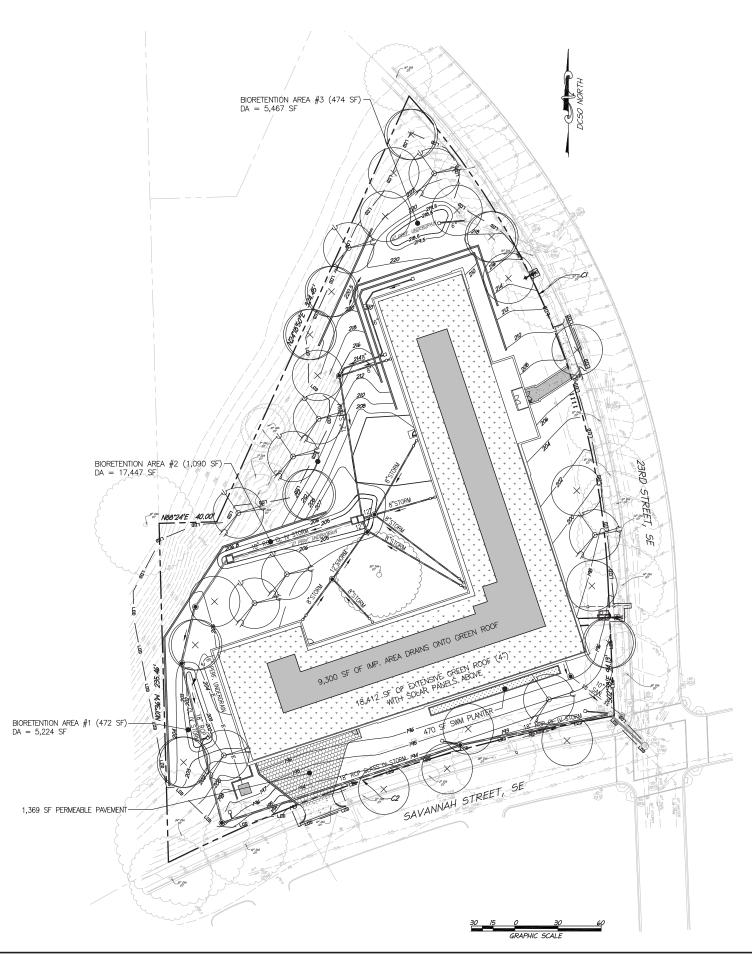




PROPOSED ON-SITE IMPERVIOUS AREA



PROPOSED LARGE TREES (35' CANOPY) PROVIDING SWM RETENTION CREDIT



STORMWATER MANAGEMENT PLAN AND NARRATIVE

Stormwater Ma		3301	Site Address 3301 23rd Street SE Plan number 6008													
			23rd Street SE													
				Green Area		Yes										
	d Sediment Cont			Floodplain F		No										
Type of Activity		-	r Land Disturbing	AWDZ?	Non-A	AWDZ										
Is the entire sit	e in the CSS?	No														
	Total Area (sf)	Site Area	PROW	Curve Numb	ers											
Natural	0	0	0	Addition	Additional Detention Provided											
Compacted	60,738	60,363	375	Pre-develop	Pre-development 7			n adjuste	d CN	66						
Impervious	13,284	12,659	625	Pre-project	Pre-project		15-year stor	-year storm adjusted CN		72						
ВМР	20,448	20,448	0				100-year sto	year storm adjusted CN		75						
Total	94,470	93,470	1,000													
Requirements	Summary (tota	l is the sur	n of PROW and Parcel)	PRO	W (ft³)	Parcel (ft³) Tota	al (ft³)	Total (Gallons)						
SWRv				69		4,654	4,72	23	35,328							
WQTv				0		0	0		0							
On-site retenti	on achieved			70		4,822	4,89	92	36,596							
On-site treatme	ent achieved			0		405	405		3,032							
% of SWRv met	t on-site			102	%	104%	103.	.59%	103.59	%						
SRC eligibility									1,268							
Offv									0							

Site Drainage Area ID	Public Right of Way	Total area (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Vehicular access area		Volume retained (cubic feet)		2-year storm adjusted Curve Number	15-year storm adjusted Curve Number	storm adjusted Curve Number	SDA Minimum Compliance
6008-4		5,467		4,993		474		170	241		40	58	64	Yes
6008-3		11,950		11,650	300			320	160		72	73	73	Yes
6008-1		76,053		43,720	12,359	19,974	2,845	4,165	4,422	405	67	73	76	Yes

Site BMP Compliance Data

BMP ID number	Туре	Total CDA (square feet)	(square feet)	(square feet)	(square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)		Retention calculation			BMP ID Numbers
6008-1-1	Extensive green roof	27,716			9,304	18,412			3,730	3,304	100% of storage volume	3,304		
6008-1-2	Traditional bioretention - Standard	5,224		4,752		472			232		60% of storage volume	232		
6008-1-3	Traditional bioretention - Standard	17,447		16,357		1,090			726	1,576	60% of storage volume	726		
6008-1-4	Proprietary practice	3,480		635	2,845		2,845		405	699			405	
6008-1-5	Tree preservation										20 cubic feet per tree	20		
6008-1-6	Tree planting										10 cubic feet per tree	140		
6008-3-1	Tree planting										10 cubic feet per tree	160		
6008-4-1	Traditional bioretention - Standard	5,467		4,993		474			241		60% of storage volume	241		

PROW Drainage Area Compliance Dat

Drainage Area ID	Right of Way	area (square feet)	(square	(square feet)	(square feet)	(square feet)	access area	(cubic	retained	
6008-2	\boxtimes	1,000		375	625			69	70	

PROW BMP Compliance Data

BMP ID number	Туре	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	volume	Retention calculation		Downstream BMP ID Numbers
6008-2-1	Tree preservation								20 cubic feet per tree	40	
6008-2-2	Tree planting								10 cubic feet per tree	30	

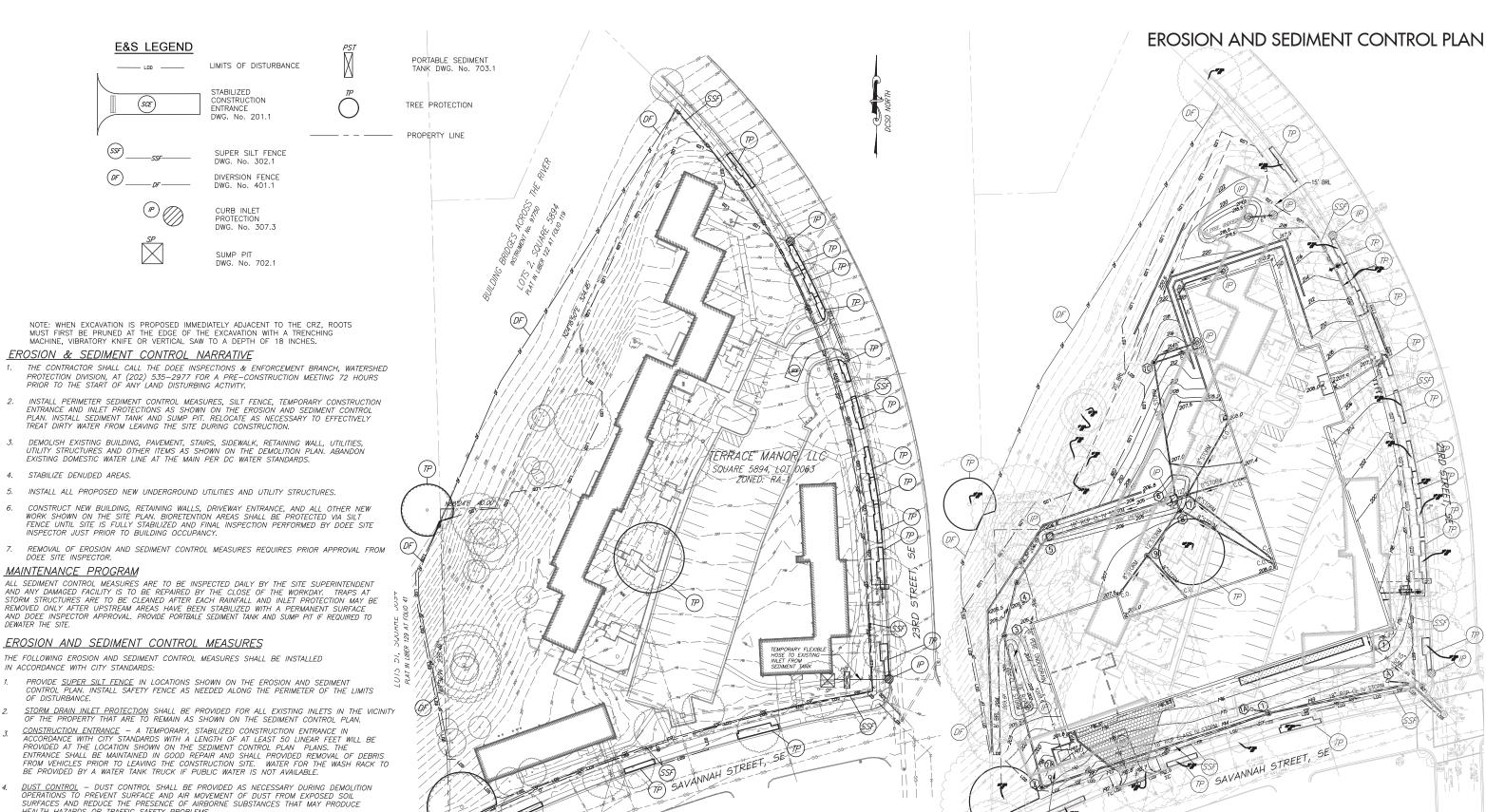
SHEET 5-6













HEALTH HAZARDS OR TRAFFIC SAFETY PROBLEMS. IF AT ANY TIME DURING SITE DEMOLITION THERE IS ANY EXPOSED SOIL, IT SHALL BE STABILIZED WITH TEMPORARY SEEDING. SEEDING MIXTURES AND SURFACE TREATMENT SHALL BE BASED UPON RECOMMENDATIONS LISTED ON SHEET C-801 AND SHALL BE VERIFIED WITH THE CITY INSPECTOR BASED UPON CONSTRUCTION DATES.

<u>UTILITY INSTALLATION NOTES</u>

- PLACE EXCAVATED MATERIALS UPSLOPE OF THE TRENCH.
- FILTER WATER PUMPED FROM EXCAVATIONS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
- PROVIDE STABILIZATION (INTERIM OR PERMANENT) AFTER THE TRENCH IS REFILLED.







SHEET 5-7

PHASE 2

PHASE 1